

Genomic DNA from *Brucella abortus*, Strain RB51

Catalog No. NR-50169

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Contributor:

Centers for Disease Control and Prevention, Atlanta, Georgia, USA

Manufacturer:

BEI Resources

Product Description:

Genomic DNA was extracted from a preparation of *Brucella abortus* (*B. abortus*), strain RB51 (also referred to as strain RB51-AHVLA).

B. abortus, strain RB51 is an attenuated, stable rough mutant derived from the virulent strain 2308.^{1,2} *B. abortus*, strain RB51 is the official vaccine for the U.S. bovine eradication program, and is also being used in several other countries to prevent and control animal brucellosis.¹ The complete genomic sequence of *B. abortus*, strain RB51-AHVLA is available (GenBank: [AQIE00000000](#)).

NR-50169 has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains approximately 0.7 µg to 1.5 µg bacterial genomic DNA in 10 mM Tris-HCl buffer, pH 8.0 – 8.5. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-50169 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. For long-term storage, the product should be stored at -80°C. Freeze-thaw cycles should be minimized. **Note: NR-50169 is not provided in EDTA; for long-term storage, EDTA may be added to a final concentration of 0.1 mM to 1 mM.**

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Brucella abortus*, Strain RB51, NR-50169."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and

Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

- Schurig, G. G., et al. "Biological Properties of RB51; a Stable Rough Strain of *Brucella abortus*." Vet. Microbiol. 28 (1991): 171-188. PubMed: 1908158.
- Vemulapalli, R., et al. "*Brucella abortus* RB51: Enhancing Vaccine Efficacy and Developing Multivalent Vaccines." Vet. Microbiol. 90 (2002): 521-532. PubMed: 12414168.
- Halling, S. M., et al. "Completion of the Genome Sequence of *Brucella abortus* and Comparison to the Highly Similar Genomes of *Brucella melitensis* and *Brucella suis*." J. Bacteriol. 187 (2005): 2715-2726. PubMed: 15805518.

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